

# Glutaric acid, nonyl 2,3,4,5-tetrafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C21H28F4O4/c1-2-3-4-5-6-7-8-12-28-17(26)10-9-11-18(27)29-14-15-13-16(22)
<b>InchiKey:</b>	KNTNCTQCHFMGJR-UHFFFAOYSA-N
<b>Formula:</b>	C21H28F4O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCc1cc(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	420.44

## Physical Properties

Property code	Value	Unit	Source
gf	-1047.25	kJ/mol	Joback Method
hf	-1560.16	kJ/mol	Joback Method
hfus	60.52	kJ/mol	Joback Method
hvap	82.31	kJ/mol	Joback Method
log10ws	-7.26		Crippen Method
logp	5.750		Crippen Method
mvol	304.950	ml/mol	McGowan Method
pc	1074.28	kPa	Joback Method
rinpol	2541.00		NIST Webbook
rinpol	2541.00		NIST Webbook
tb	876.14	K	Joback Method
tc	1072.72	K	Joback Method
tf	549.61	K	Joback Method
vc	1.224	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	964.21	J/mol×K	876.14	Joback Method
cpg	979.30	J/mol×K	908.90	Joback Method
cpg	993.27	J/mol×K	941.67	Joback Method
cpg	1006.11	J/mol×K	974.43	Joback Method
cpg	1017.86	J/mol×K	1007.20	Joback Method
cpg	1028.51	J/mol×K	1039.96	Joback Method
cpg	1038.08	J/mol×K	1072.72	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377447&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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